

FIG. 1

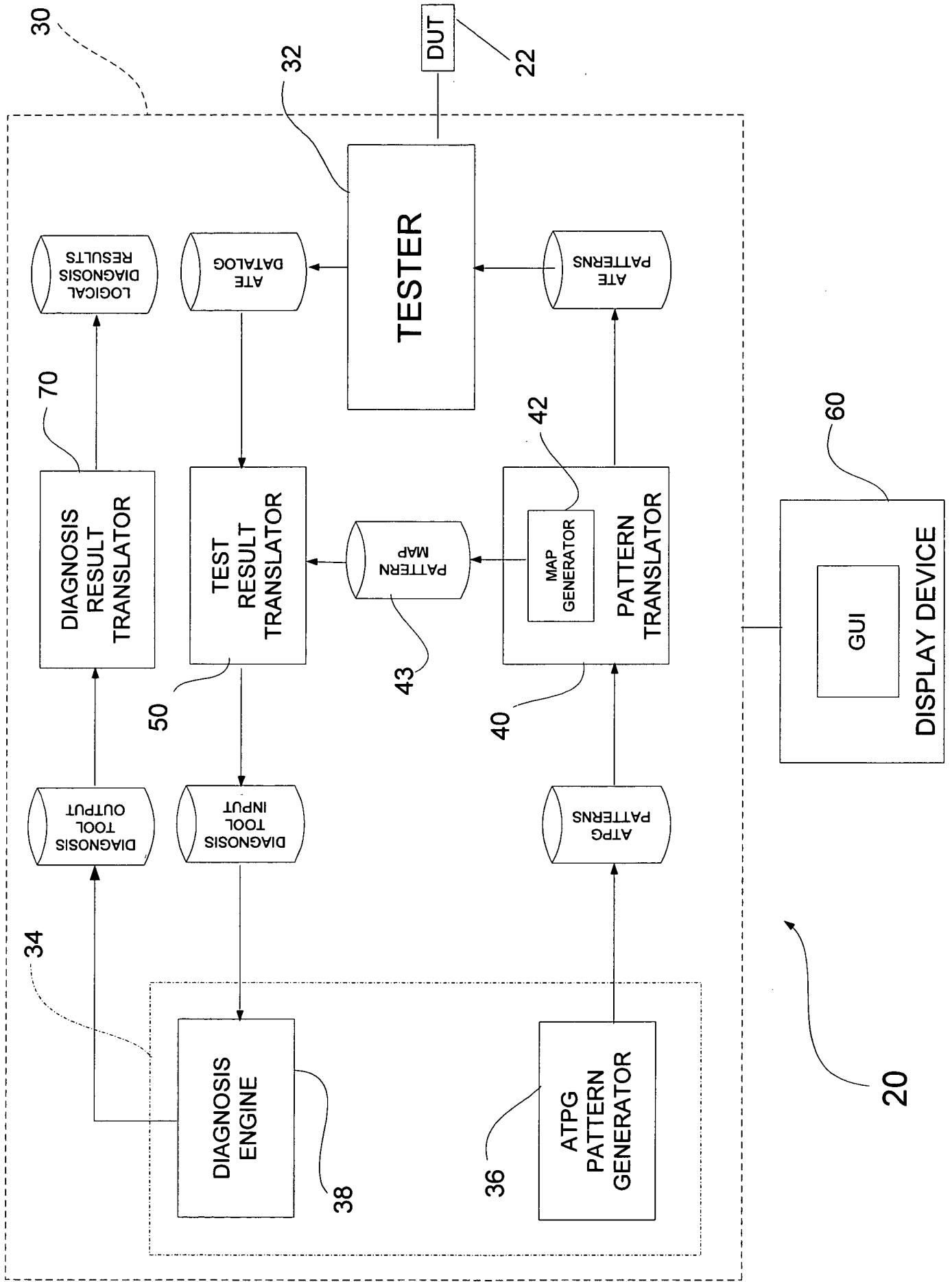
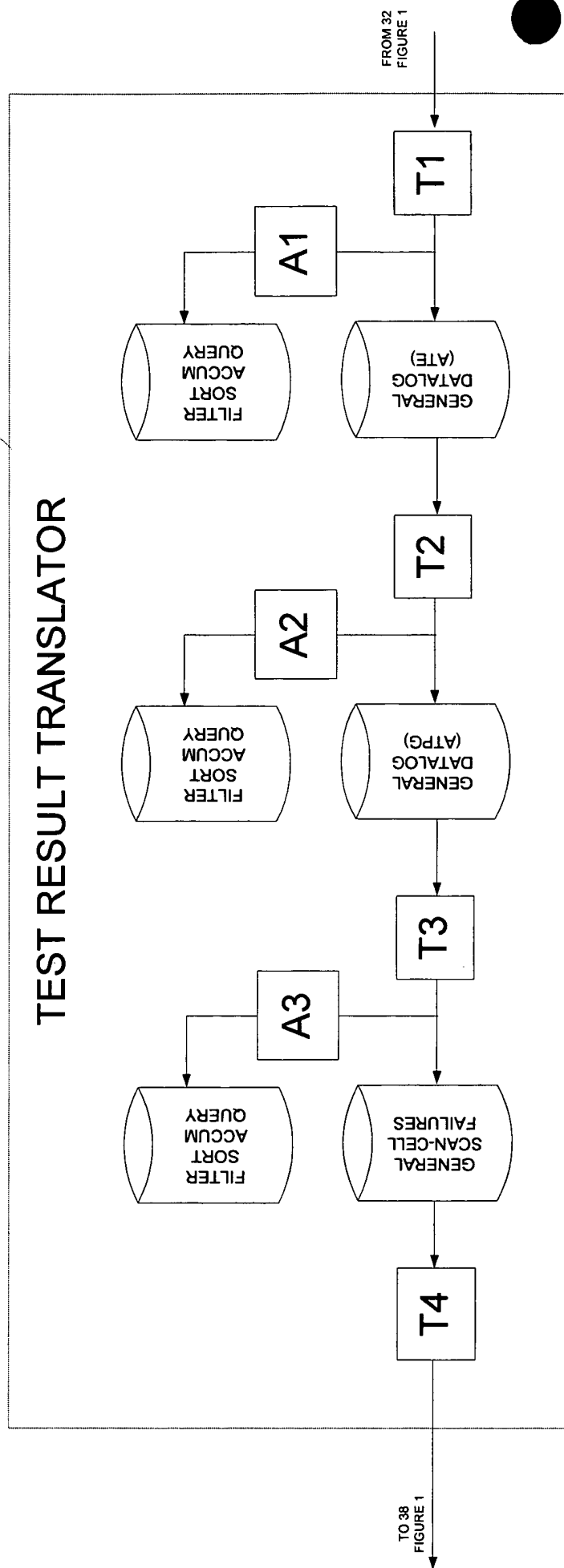


FIG. 2

50



FROM 42
FIGURE 1

FIG. 3

FIG. 3

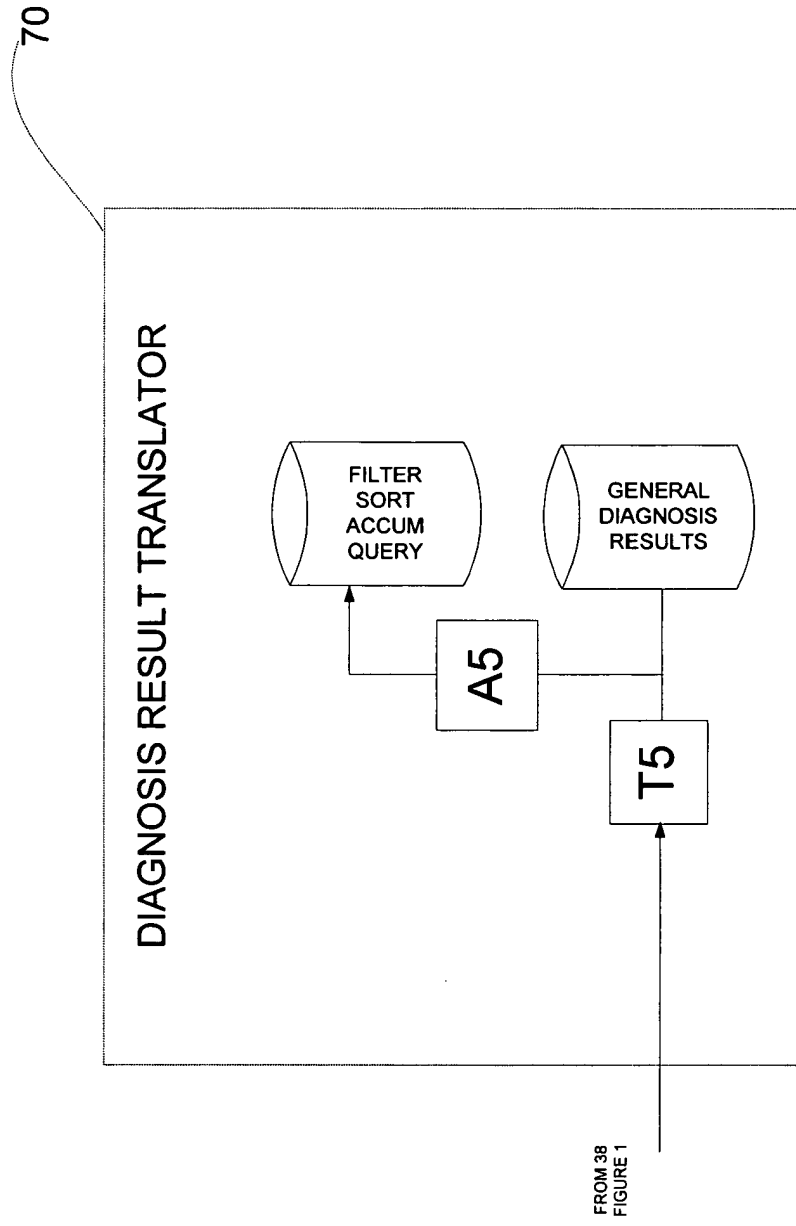


FIG. 4

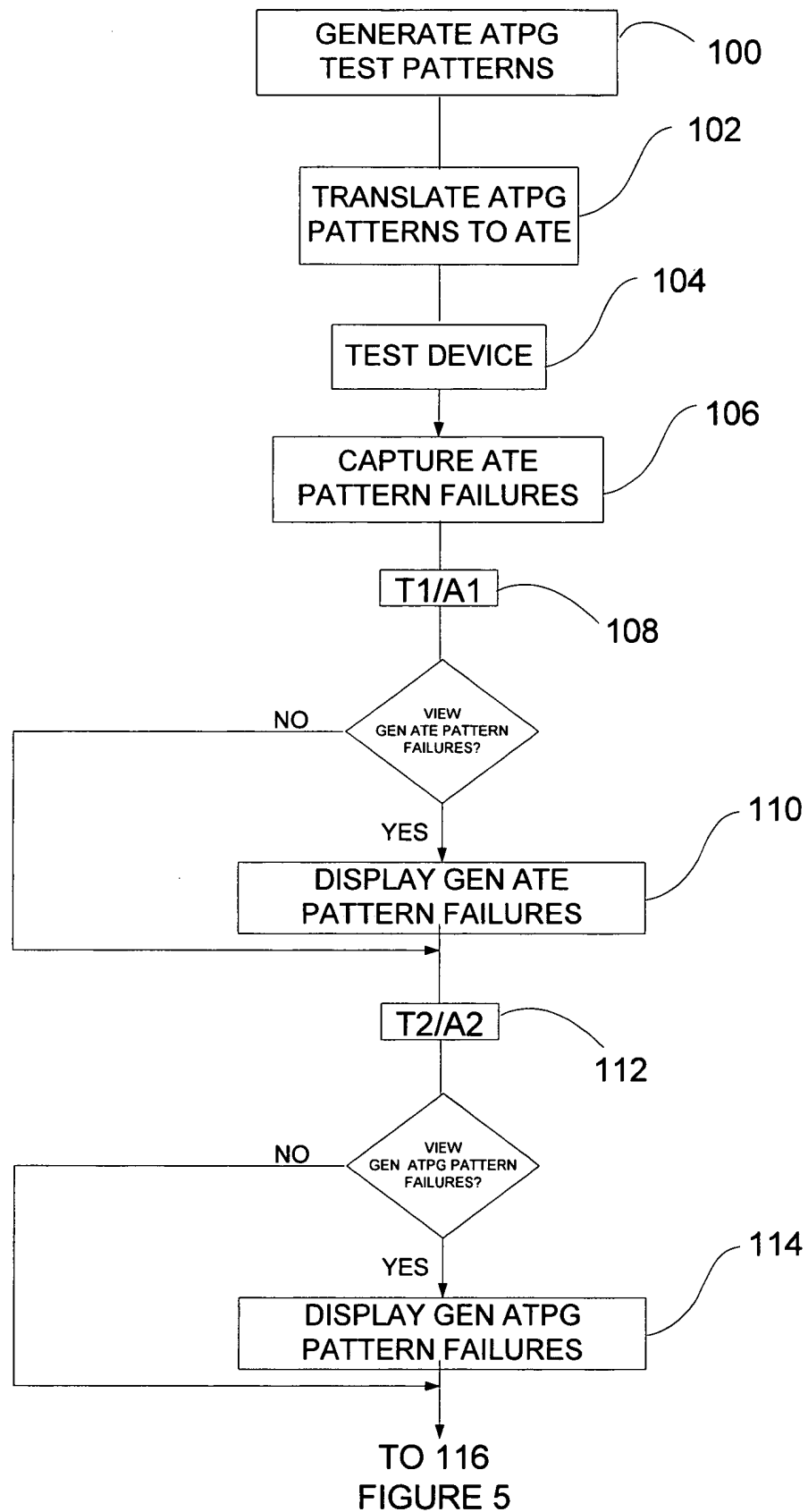
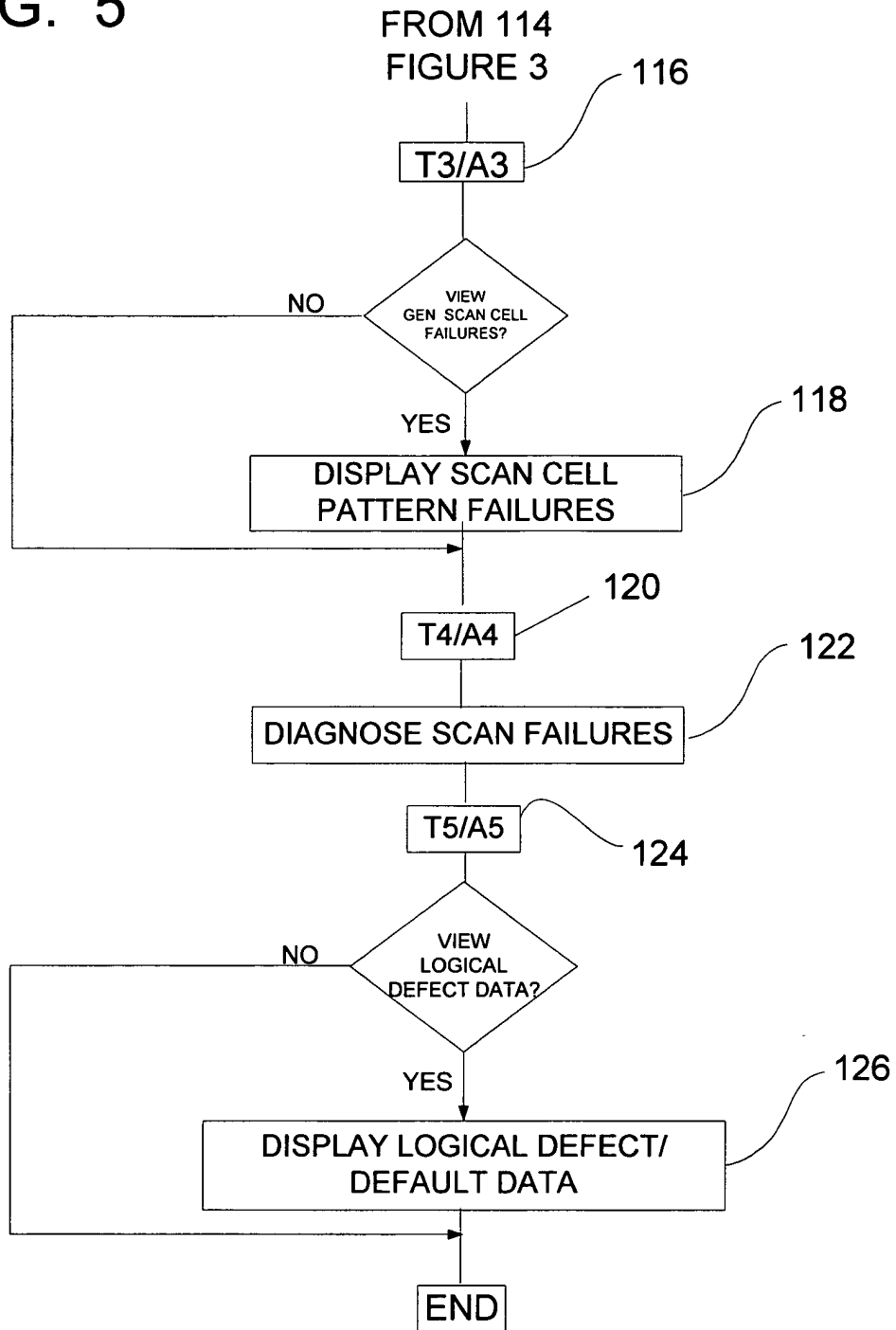


FIG. 5



Interactive Scan Diagnosis Prototype

File View Look and Feel Help

Connect to Tester Connect to Diagnosis Tool Disconnect Status Status: Connected to IMAGE tester : tiger-S2 Diag

Debug Scan Test 2 at Site 0

Device : device5

Scan Fail Table

☐ Last Result

☒ Accumulated Result

Scan Chain Fail Display

☐ Last Result

☐ Accumulated Result

Available Diagnosis Tools

Choose Diagnosis Tool

☒ TetraMAX
☐ FastScan
☐ Logic BLIST

☐ Synopsys
☐ MentorGraphics
☐ LogicVision

OK Cancel

Cumulative Results for Test Scan Test 2 at Site 0

Count	Chain	Cell	Pattern	Devices
3	chain6	188	265	Data: Scan Test 2-1, Data: Scan Test 2-3, Data: Scan Test 2-4
3	chain6	93	495	Data: Scan Test 2-1, Data: Scan Test 2-3, Data: Scan Test 2-4
3	chain6	187	797	Data: Scan Test 2-1, Data: Scan Test 2-3, Data: Scan Test 2-4
3	chain6	92	338	Data: Scan Test 2-1, Data: Scan Test 2-3, Data: Scan Test 2-4
3	chain6	90	561	Data: Scan Test 2-1, Data: Scan Test 2-3, Data: Scan Test 2-4
3	chain6	86	534	Data: Scan Test 2-1, Data: Scan Test 2-3, Data: Scan Test 2-4

device1 : Data: Scan Test 2-1

device2 : Data: Scan Test 2-2

device3 : Data: Scan Test 2-3

Accumulation by Scan Cell and Pattern

Test Results	By Scan Cell	By Scan Cell and Pattern	By Pattern

File View Look and Feel Help		Diag	
Interactive Scan Diagnosis Prototype			
<input type="button" value="Connect to Tester"/>	<input type="button" value="Connect to Diagnosis Tool"/>	<input type="button" value="Status"/> <input type="button" value="Disconnect"/>	Status: Connected to IMAGE tester : tiger-S2

☒ **Diagnosis Tool**

Device Name	Test Result	Diagnosis Result
<input checked="" type="checkbox"/> device1	Data: Scan Test 2-1	diagnosis_result_1
<input checked="" type="checkbox"/> device3	Data: Scan Test 2-3	diagnosis_result_2
<input checked="" type="checkbox"/> device4	Data: Scan Test 2-4	diagnosis_result_3

Show Result

☒ Accumulated Diagnosis Result
☐ Raw Diagnosis Result

Diagnose

Close

Show GUI

☒ **Accumulated Fault Equivalents**

Count	Fault Equivalent	Node	Fault Type	Detection Code	Devices
3	fe2	/fpu1/u5/prod1_mult_378_ix4405/Y	0	DS	diagnosis_result_1, diagnosis_result_2, ...
		/fpu1/u5/prod1_mult_378_ix4405/A	1	DS	
		/fpu1/u5/ix2828/Y	1	DS	
		/fpu1/u5/ix2828/A2	0	DS	
		/fpu1/u5/ix2828/A1	0	DS	
		/fpu1/u5/ix2828/A0	0	DS	
1	fe3	/risc1/ix4163/Y	1	DS	diagnosis_result_2
		/risc1/ix4163/B0	1	DS	
		/risc1/ix5939/Y	1	DS	
		/rsc1/ix5030/A	1	DS	

Accumulate by Defect

Accumulate by Fault Equivalent

Accumulate by Node